

2005-2011 Aquatic Vegetation Summary for Rice Lake Rice Lake National Wildlife Refuge, MN

Rice Lake is a 3,643 acre (1,474 hectares) lake located in the Rice Lake National Wildlife Refuge in Aitkin County, approximately 100 miles due north of Minneapolis, MN. This report summarizes the aquatic vegetation mapped within the lake's shoreline for the years 2005, 2006, 2007, 2008, 2009, and 2011. There is no photography for 2010. The 2005-2008 photos were collected using a 9"x9" analog aerial camera while the 2009 and 2011 photos were collected with a digital aerial camera. Five classes were mapped for Rice Lake and are listed below.

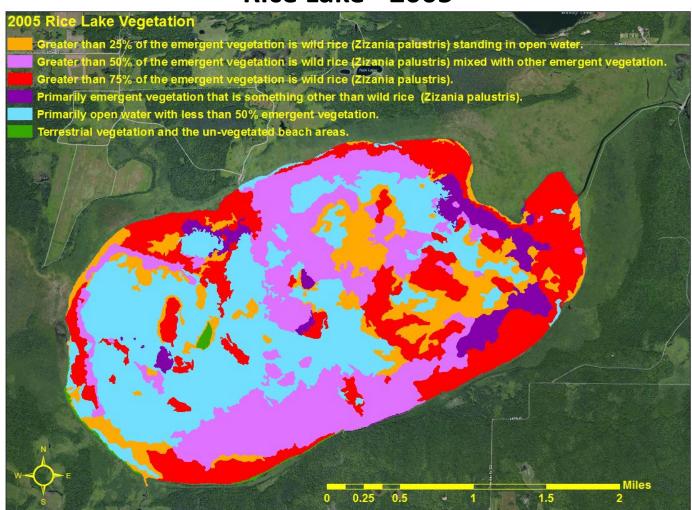
## Rice Lake Vegetation Classification System

VEG	CODE VEG CODE D
<b>EMG</b>	Primarily emergent vegetation that is something other than wild rice (Zizania palustris).
NPC	No Photo Coverage
ow	Primarily open water with less than 50% emergent vegetation.
TERR	Terrestrial vegetation and the un-vegetated beach areas.

ZIZD Greater than 75% of the emergent vegetation is wild rice (Zizania palustris).

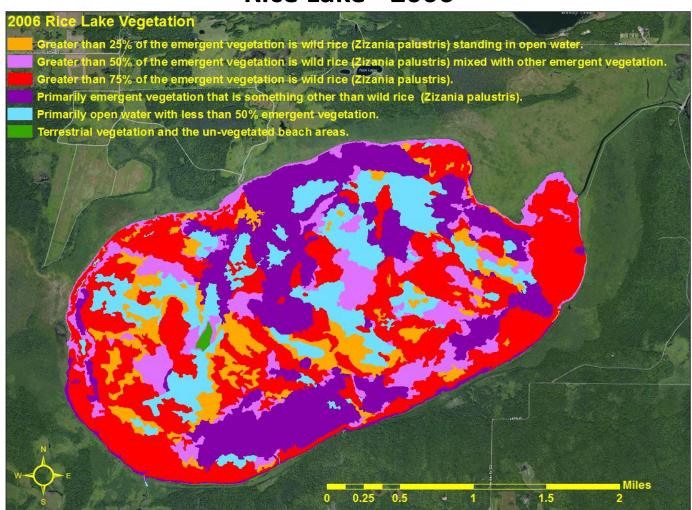
ZIZME Greater than 50% of the emergent vegetation is wild rice (Zizania palustris) mixed with other emergent vegetation.

ZIZW Greater than 25% of the emergent vegetation is wild rice (Zizania palustris) standing in open water.



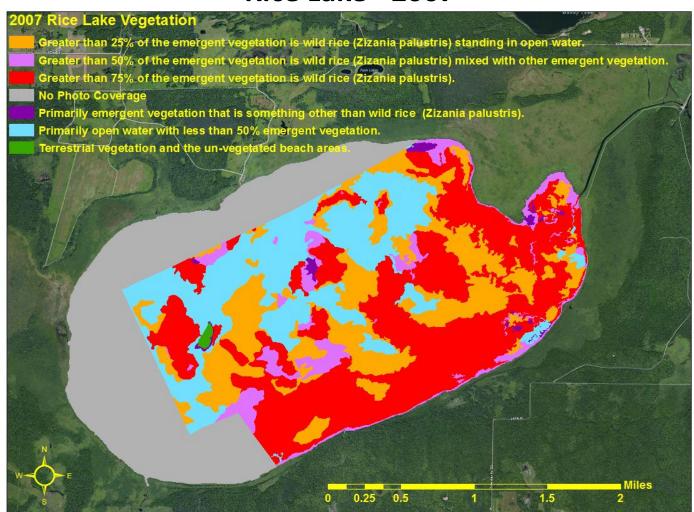
Date of photography: September 10, 2005

Veg_Code	Count	Acres	% of Tot
EMG	12	186.8	5.1%
NPC	0	0.0	0.0%
OW	21	1204.3	33.1%
TERR	6	17.7	0.5%
ZIZD	24	851.8	23.4%
ZIZME	21	907.2	24.9%
ZIZW	36	475.0	13.0%
Totals	120	3642.8	100.0%



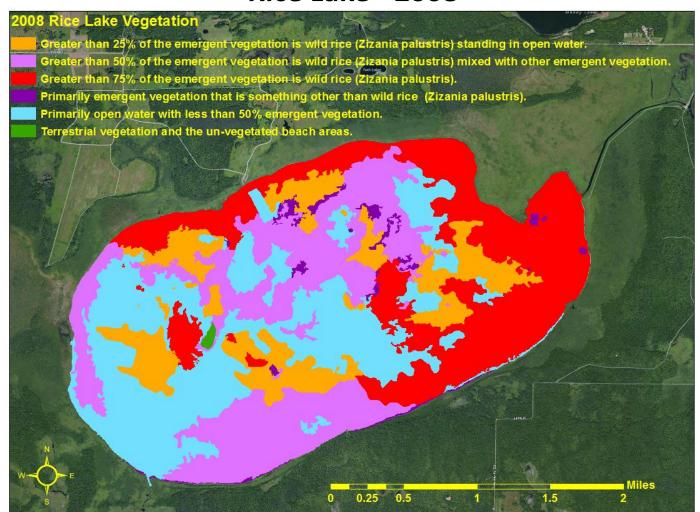
Date of photography: August 22, 2006

Veg_Code	Count	Acres	% of Tot
EMG	20	929.4	25.5%
NPC	0	0.0	0.0%
OW	34	564.5	15.5%
TERR	2	7.9	0.2%
ZIZD	29	1325.4	36.4%
ZIZME	58	467.4	12.8%
ZIZW	50	348.1	9.6%
Totals	193	3642.8	100.0%



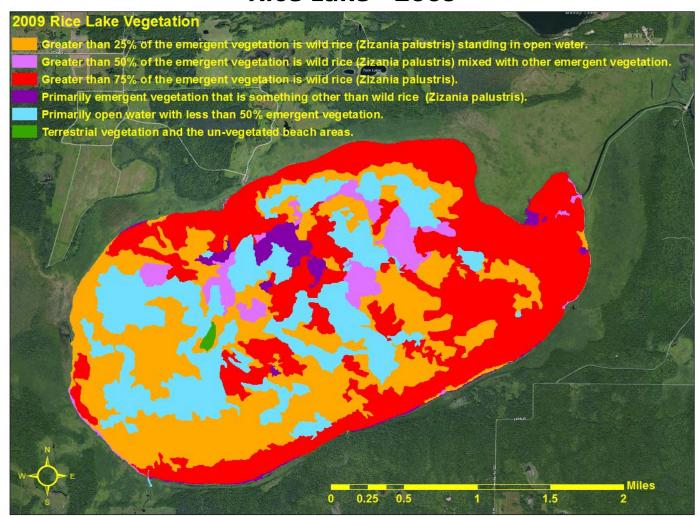
Date of photography: September 28, 2007

Veg_Code	Count	Acres	% of Tot
EMG	15	23.6	0.6%
NPC	1	1000.0	27.5%
OW	9	644.3	17.7%
TERR	1	6.7	0.2%
ZIZD	12	1112.1	30.5%
ZIZME	37	194.4	5.3%
ZIZW	30	661.7	18.2%
Totals	105	3642.8	100.0%



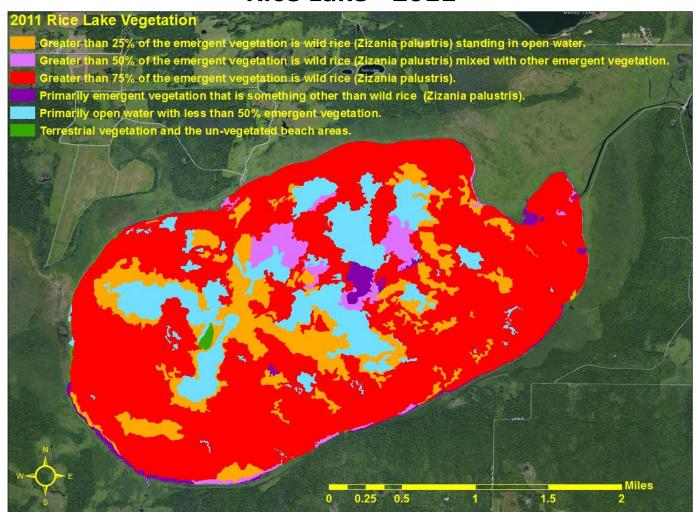
Date of photography: August 29, 2008

Veg_Code	Count	Acres	% of Tot
EMG	27	55.1	1.5%
NPC	0	0.0	0.0%
OW	14	1080.9	29.7%
TERR	2	7.0	0.2%
ZIZD	7	1013.4	27.8%
ZIZME	9	948.7	26.0%
ZIZW	13	537.8	14.8%
Totals	72	3642.8	100.0%



Date of photography: August 18, 2009

Veg Code	Count	Acres	% of Tot
EMG	12	85.5	2.3%
NPC	0	0.0	0.0%
OW	14	795.9	21.8%
TERR	1	7.4	0.2%
ZIZD	9	1372.2	37.7%
ZIZME	17	182.2	5.0%
ZIZW	20	1199.6	32.9%
Totals	73	3642.8	100.0%



Date of photography: August 18, 2011

Veg_Code	Count	Acres	% of Tot
EMG	21	62.9	1.7%
NPC	0	0.0	0.0%
OW	44	502.7	13.8%
TERR	7	13.2	0.4%
ZIZD	3	2404.6	66.0%
ZIZME	15	128.0	3.5%
ZIZW	41	531.5	14.6%
Totals	131	3642.8	100.0%